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NEWS	2		"Ask CAS" for self-help around the clock
NEWS	3	FEB 28	PATDPAFULL - New display fields provide for legal status
			data from INPADOC
NEWS	4	FEB 28	BABS - Current-awareness alerts (SDIs) available
NEWS	5	MAR 02	GBFULL: New full-text patent database on STN
NEWS	6	MAR 03	REGISTRY/ZREGISTRY - Sequence annotations enhanced
NEWS	7	MAR 03	MEDLINE file segment of TOXCENTER reloaded
NEWS	8	MAR 22	KOREAPAT now updated monthly; patent information enhanced
NEWS	9	MAR 22	Original IDE display format returns to REGISTRY/ZREGISTRY
NEWS	10	MAR 22	PATDPASPC - New patent database available
NEWS	11	MAR 22	REGISTRY/ZREGISTRY enhanced with experimental property tags
NEWS	12	APR 04	EPFULL enhanced with additional patent information and new fields
NEWS	13	APR 04	EMBASE - Database reloaded and enhanced
NEWS	14	APR 18	New CAS Information Use Policies available online
NEWS	15	APR 25	Patent searching, including current-awareness alerts (SDIs), based on application date in CA/Caplus and
			may be affected by a change in filing date for U.S. applications.
NEWS	16	APR 28	Improved searching of U.S. Patent Classifications for
			U.S. patent records in CA/Caplus
NEWS	17	MAY 23	GBFULL enhanced with patent drawing images
NEWS	18	MAY 23	REGISTRY has been enhanced with source information from
			CHEMCATS
NEWS	19	JUN 06	The Analysis Edition of STN Express with Discover!

(Version 8.0 for Windows) now available

NEWS 20 JUN 13 RUSSIAPAT: New full-text patent database on STN

NEWS 21 JUN 13 FRFULL enhanced with patent drawing images

NEWS 22 JUN 27 MARPAT displays enhanced with expanded G-group definitions

and text labels

NEWS 23 JUL 01 MEDICONF removed from STN

NEWS 24 JUL 07 STN Patent Forums to be held in July 2005

NEWS 25 JUL 13 SCISEARCH reloaded

NEWS 26 JUL 20 Powerful new interactive analysis and visualization software,

STN AnaVist, now available

NEWS EXPRESS JUNE 13 CURRENT WINDOWS VERSION IS V8.0, CURRENT MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP), AND CURRENT DISCOVER FILE IS DATED 13 JUNE 2005

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FILE 'HOME' ENTERED AT 12:15:02 ON 01 AUG 2005

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=> s (chymotrypsin or trypsin)
L1 250505 (CHYMOTRYPSIN OR TRYPSIN)

=> s (serine (3A) 217) or S217 or Ser217
L2 82 (SERINE (3A) 217) OR S217 OR SER217

=> s (isoleucine (3A) 212) or I217 or Ile217
L3 11 (ISOLEUCINE (3A) 212) OR I217 OR ILE217

=> s l1 (20A) l2
L4 1 L1 (20A) L2

=> d l4 bib ab

L4 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2005 ACS on STN

AN 2000:446347 CAPLUS

DN 133:219283

TI Trypsin-specific acyl-4-guanidinophenyl esters for

α -chymotrypsin-

catalysed reactions. Computational predictions, hydrolyses, and
peptide

bond formation

AU Gunther, Robert; Thust, Sven; Hofmann, Hans-Jorg; Bordusa, Frank

CS Department of Biochemistry, Faculty of Biosciences, Pharmacy and
Psychology, University of Leipzig, Halle/Saale, Germany

SO European Journal of Biochemistry (2000), 267(12), 3496-3501

CODEN: EJBCAI; ISSN: 0014-2956

PB Blackwell Science Ltd.

DT Journal

LA English

AB The function of acyl-4-guanidinophenyl esters as substrate
mimetics for

the serine protease α -chymotrypsin was investigated by
protein-ligand docking, hydrolysis, and acyl transfer expts. On
the basis

of protein-ligand docking studies, the binding and hydrolysis
properties

of these artificial substrates were estimated The predictions
of the rational

approach were confirmed by steady-state hydrolysis studies on
4-guanidinophenyl esters derived from coded amino acids (which
 α -chymotrypsin is not specific for), non-coded amino acids, and
even

simple carboxylic acid moieties. Enzymic peptide syntheses
qualify these

esters as suitable acyl donors for the coupling of acyl
components far

from the natural enzyme specificity, thus considerably expanding
the

synthetic utility of α -chymotrypsin.

RE.CNT 28 THERE ARE 28 CITED REFERENCES AVAILABLE FOR THIS RECORD
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L5 0 L1 (20A) L3

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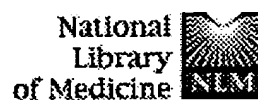
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Theoretical perspectives on the reaction mechanism of serine proteases: the reaction free energy profiles of the acylation process.
J Am Chem Soc. 2003 Oct 1;125(39):12035-48.
PMID: 14505425 [PubMed - indexed for MEDLINE]

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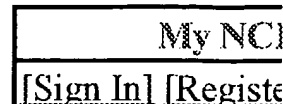
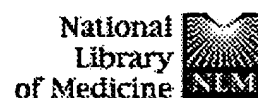
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One page.

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☐ 1: [Ghani U, Ng KK, Atta-ur-Rahman, Choudhary MI, Ullah N, James MN.](#) [Related Articles, Links](#)

[Overview](#)

☐ Crystal structure of gamma-chymotrypsin in complex with 7-hydroxycoumarin.

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J Mol Biol. 2001 Nov 30;314(3):519-25.

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PMID: 11846564 [PubMed - indexed for MEDLINE]

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☐ 2: [Capasso C, Rizzi M, Menegatti E, Ascenzi P, Bolognesi M.](#) [Related Articles, Links](#)

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☐ Crystal structure of the bovine alpha-chymotrypsin:Kunitz inhibitor complex. An example of multiple protein:protein recognition sites.

[Journals Database](#)

J Mol Recognit. 1997 Jan-Feb;10(1):26-35.

[MeSH Database](#)

PMID: 9179777 [PubMed - indexed for MEDLINE]

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L1	22701	(chymotrypsin or trypsin)	USPAT	OR	OFF	2005/08/01 11:40
L2	1435	(serine near3 "217") or "S217" or Ser217	USPAT	OR	OFF	2005/08/01 11:57
L3	12	I1 and I2	USPAT	OR	OFF	2005/08/01 11:41
L4	0	I1 near10 I2	USPAT	OR	OFF	2005/08/01 11:41
L5	0	I1 near20 I2	USPAT	OR	OFF	2005/08/01 11:41
L6	19	(isoleucine near3 "212") or I217 or Ile217	USPAT	OR	OFF	2005/08/01 11:58
L7	0	I1 near29 I6	USPAT	OR	OFF	2005/08/01 11:58